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Full length sequence of LysA (NRRL-B11474)
DIAMINOPIMELATE DECARBOXYLASE (Lys A) (SEQ ID NO:12)

MATVENFNELPAHVWPRNAVRQEDGVVTVAGVPLPDLAEEYGTPLFVVDEDDFRSRCRDM
ATAFGGPGNVHYASKAFLTKTIARWVDEEGLALDIASINELGIALAAGFPASRITAHGNN
KGVEFLRALVQNGVGHVVLDSAQELELLDYVAAGEGKIQDVLIRVKPGIEAHTHEFIATS
HEDQKFGFSLASGSFAEAKAANNAENLNLVGLHCHVGSQVFDAEGFKLAAERVLGLYSQ
IHSELGVALPELDLGGGYGIAYTADEEPLNVAEVASD¹LTAVGKMAAELGIDAPTVLVEP
GRAIAGPSTVTIYEVGTTKNVHVD²DDKTRRYVAVDGGMSDNIRPALYGSEYDARVVS³RFA
EGDPVSTRIVGSHCESGDILINDEIYPSDITSGD⁴FLA⁵LAAATGAYCYAMSSRYNAFTRPAV
VSVRAGSSRLMLRRETLD⁶DILSLEA

FIG. 13

Appl. No. 09/722,441; Group Art Unit: 1645
Dkt. No. 1533.1030002; Batch No.: To Be Assigned
Inventor(s): Hanke et al.; Tel: 202/371-2600
Title: Increased Lysine Production by Gene Amplification



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ATAFGGPGNVHYASKAFLTKTIARWVDEEGLALDIASINELGIALAAGFPASRITAHGNN
KGVEFLRALVQNGVGHVVLDSAQELELLDYVAAGEGKIQDVLIRVKPGIEAHTHEFIATS
HEDQKFGFSLASGSAFEAAKAANNAENLNLVGLHCHVGSQVFDAEGFKLAAERVLGLYSQ
IHSELGVALPELDLGGGYGIAYTADEEPLNVAEVASDLLTAVGKMAAELGIDAPTVLVEP
GRAIAGPSTVTIYEVGTTKNVHVDDDKTRRYVAVDGGMSDNIRPALYGSEYDARVVSFA
EGDPVSTRIVGSHCESGDILINDEIYPSDITSGDFLALAATGAYCYAMSSRYNAFTRPAV
VSVRAGSSRLMLRRETLDLILSLEA

FIG. 13